

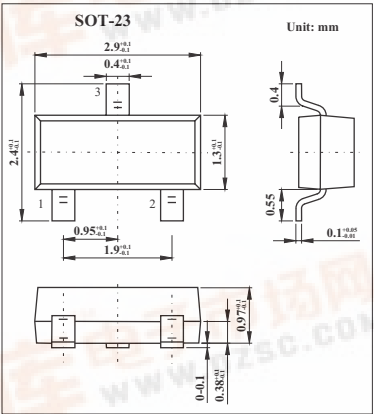
SMD Type

Diodes

ULTRA HIGH SPEED SWITCHING APPLICATION
1SS187

■ Features

- Small Package
- Low forward voltage : $V_F(3) = 0.92\text{ V(Typ.)}$
- Fast Reverse Recovery Time : $t_{rr} = 1.6\text{ ns(Typ.)}$
- Small Total Capacitance : $C_T = 2.2\text{ pF(Typ.)}$



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Peak Reverse Voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	80	V
Peak Reverse Current	I_{RM}	300	mA
Average Rectified Current	I_o	100	mA
Surge Current (10 ms)	I_{FSM}	2	A
DC Forward Current	P	150	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to + 125	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous reverse voltage	V_F	$I_F = 1.0\text{ mA}$		0.61		V
		$I_F = 10\text{ mA}$		0.74		
		$I_F = 100\text{ mA}$		0.92	1.2	
Reverse current	I_R	$V_R = 30\text{ V}$			0.1	$\mu\text{ A}$
		$V_R = 80\text{ V}$			0.5	
Total capacitance	C_T	$V_R = 0, f = 1.0\text{ MHz}$		2.2	4.0	pF
Reverse recovery time	t_{rr}	$I_F = 10\text{ mA}$		1.6	4.0	ns

■ Marking

Marking	D3
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